

QP Code : 3252

(4 Hours)

[Total Marks : 80

- N. B. :** (1) Question No. 1 is compulsory.
(2) Answer any three questions from the remaining.
(3) All questions carry equal marks.

1. It is proposed to plan and design a Primary Health Centre (P.H.C.) in Rural area with the following facilities as R.C.C. framed structure as (G+1) storied only. Following are the facilities to be provided on both the floors. Assume floor-floor height as 3.6 m.

Facilities :-

- (i) Entrance & Reception = 30 sq. m.
- (ii) Doctor's Rooms = 4 no. (each 20 sq. m.)
- (iii) Nurses Room = 20 sq. m.
- (iv) Operation Theatre = 50 sq. m.
- (v) General Ward = 100 sq. m.
- (vi) Ladies Ward = 75 sq. m.
- (vii) Store Room = 20 sq. m.
- (viii) Medical Store = 30 sq. m.
- (ix) Changing Room = 20 sq. m.

Provide Toilets, Passages etc. as per the Bye-laws & Regulations. Draw the following with suitable scale.

- (a) Ground Floor Plan 15
 - (b) Line Plan of First Floor 5
2. Draw the SECTIONAL ELEVATION for the building you have planned in Q. No. 1. 20
3. (a) Draw the FRONT ELEVATION for the above building in Q. No. 1. 10
(b) Draw the FOUNDATION PLAN & section of ONE FOOTING for the building in Q. No. 1. 10
4. Draw the TWO - POINT PERSPECTIVE for the building you have proposed in Q. No. 1. Assume Eye-level at 2.0 m. from ground level. Draw the perspectives for steps, Doors, Windows & Chajja also. 20

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5. (a) Write short notes on the following :-
- (i) Principles of TOWN PLANNING 5
 - (ii) Slum clearance & Redevelopment 5
- (b) Draw the ONE-POINT PERSPECTIVE for a WORKSHOP with the following data :- 10
- Size of Workshop = 30 m. × 15 m.
Height of Workshop = 5.0 m. (Excluding pitched Roof)
Eye-level from Ground level = 3.0 m.
Plinth height = 0.6 m.
6. (a) Write short notes on the following :-
- (i) GREEN buildings 5
 - (ii) Principles of Modular Planning 5
- (b) Draw TWO-POINT PERSPECTIVE with the following data :- 10
- Size of Dining Hall = 30 m. × 12 m.
Floor-Floor Height = 4.0 m.
Plinth Height = 0.6 m.
Eye-level = 2.0 m. from Ground level
Provide Doors, Windows, Chajja Projection etc.